

**ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**State Assurance Fund**

**TABLE OF COST SCHEDULE ITEM CODES**

<b>Cost Schedule Item Code</b>	<b>NON-PHASE SPECIFIC ITEMS AND COSTS</b>	<b>Unit of Measure</b>	<b>July 1, 2007 Cost Schedule Amount<sup>1</sup></b>
<b>PERSONNEL RATES</b>			
1	Principal Level	\$/Hour	\$131
2	Senior Level	\$/Hour	\$113
3	Project Level	\$/Hour	\$95
4	Staff Level	\$/Hour	\$80
5	Field Level	\$/Hour	\$68
6	Technical Level	\$/Hour	\$59
7	Administrative Assistant Level	\$/Hour	\$49
8	Word Processor Level	\$/Hour	\$43
<b>CONTRACTOR PERSONNEL RATES</b>			
9	Construction Field Supervisor Level	\$/Hour	\$85
10	Skilled Laborer Level	\$/Hour	\$54
11	Unskilled Laborer Level	\$/Hour	\$43
12	Equipment Operator Level (Average Rate to Operate a Standard Piece of Equipment)	\$/Hour	\$63
<b>MILEAGE RATES</b>			
13	Consultant Mileage Rate (single person)	\$/Mile	\$0.45
14	Consultant Mileage Rate (two people)	\$/Mile	\$0.45
15	Contractor Daily Travel Mileage Rate	\$/Mile	\$0.45
<b>PER DIEM RATES</b>			
	Per Diem Requirement (# Miles Required)	50 Miles	
16	Fieldwork Per Diem Without Overnight Stay	\$/Day	\$42
17	Fieldwork Per Diem With Overnight Stay (Incl. Lodging)	\$/Day	\$113
<b>MISCELLANEOUS</b>			
18	Health and Safety Plan	\$/HASP	\$742
19	Pursuit of Off-Site Access Agreement with a Private Entity Only	\$/Access	\$1,330
<b>EQUIPMENT RATES</b>			
20	Water Level Indicator	\$/Day	\$42
21	Oil/Water Interface Probe	\$/Day	\$62
22	pH Temperature and Conductivity Meter	\$/Day	\$47
23	Photoionization Detector	\$/Day	\$83
24	Flame Ionization Detector	\$/Day	\$120
25	LEL/O2 Meter	\$/Day	\$62
26	Dissolved Oxygen Meter	\$/Day	\$57
27	1.6" Diameter Disposable Bailer	\$/Bailer	\$6
28	3.3" Diameter Disposable Bailer	\$/Bailer	\$20
29	Combustable Gas Indicator (CGI)	\$/Day	\$83
30	Vapor Sampling Pump Kit	\$/Day	\$31
31	Tedlar Bag (0.5L)	\$/Bag	\$15
32	Manual-Operated Hand Auger Sampling Kit (Hand Auger/Brass Sleeves)	\$/Day	\$71

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33	Generator (≤ 6kw)	\$/Day	\$83
34	Submersible Pump with Controller	\$/Day	\$166
35	Peristaltic Pump	\$/Day	\$42
<b>CONTRACTOR DRILLING - RELATED ACTIVITIES</b>			
<b><i>SOIL BORING AND SAMPLING Mobilization/Demobilization (Mob/Demob)</i></b>			
36	Hollow Stem Auger Drilling Method (includes 60 miles of travel)	Per Event	\$544
37	All Other Drilling Methods (includes 60 miles of travel)	Per Event	\$645
<b><i>SOIL BORING AND SAMPLING MOB/DEMO ADDITIONAL TRAVEL</i></b>			
38	Hollow Stem Auger Drilling Method - Mob/Demob Additional Travel (additional mileage over the 60 miles included in #36)	Per Mile	\$5
39	All Other Drilling Methods - Mob/Demob Additional Travel (additional mileage over the 60 miles included in #37)	Per Mile	\$5
<b><i>SOIL BORING AND SAMPLING</i></b>			
40	Hollow Stem Auger Drilling Method-Vertical Boring	Per Foot	\$24
41	Hollow Stem Auger Drilling Method-Angle Boring	Per Foot	\$30
42	Limited Access Drilling Method-Vertical Boring	Per Foot	\$40
43	Air Rotary Drilling Method-Vertical Boring	Per Foot	\$42
44	Rotosonic Drilling Method-Vertical Boring	Per Foot	\$46
45	Dual Wall Percussion Drilling Method-Vertical Boring	Per Foot	\$44
46	Dual Wall Percussion Drilling Method-Angle Boring	Per Foot	\$63
47	Soil Boring Abandonment by Grout (all boring diameters)	Per Foot	\$11
<b>CONTRACTOR - WELL INSTALLATION RELATED ACTIVITIES</b>			
<b><i>DRILLING AND WELL INSTALLATION</i></b>			
48	2 inch Hollow Stem Auger	Per Foot	\$42
49	4-inch Hollow Stem Auger	Per Foot	\$51
50	6-inch Hollow Stem Auger	Per Foot	\$72
51	2-inch Air Rotary	Per Foot	\$59
52	4-inch Air Rotary	Per Foot	\$69
53	6-inch Air Rotary	Per Foot	\$92
54	2-inch Rotosonic	Per Foot	\$67
55	4-inch Rotosonic	Per Foot	\$70
56	6-inch Rotosonic	Per Foot	\$86
57	2-inch Dual Wall Percussion	Per Foot	\$61
58	4-inch Dual Wall Percussion	Per Foot	\$73
59	6-inch Dual Wall Percussion	Per Foot	\$94
<b><i>SURFACE COMPLETION</i></b>			
60	Well Surface Completion: Access Manhole ≤ 12"	\$/Well	\$324
61	Well Surface Completion: Access Manhole > 12" to ≤ 24"	\$/Well	\$547

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<b>WELL DEVELOPMENT MOB/DEMOB</b>			
62	Well Development Mob/Demob	Per Event	\$527
63	Well Development - Mob/Demob Additional Travel (additional mileage over the 60 miles included in #62)	Per Mile	\$5
<b>WELL DEVELOPMENT</b>			
64	2-inch Well: Depth to Water Less Than 100 Feet	\$/Well	\$511
65	2-Inch Well: Depth to Water Equal To or Greater Than 100 Feet	\$/Well	\$634
66	4-Inch Well: Depth to Water Less Than 100 Feet	\$/Well	\$552
67	4-Inch Well: Depth to Water Equal To or Greater Than 100 Feet	\$/Well	\$665
68	6-Inch Well: Depth to Water Less Than 100 Feet	\$/Well	\$678
69	6-Inch Well: Depth to Water Equal To or Greater Than 100 Feet	\$/Well	\$780
<b>MOBILE LABORATORY</b>			
70	Mobile Lab Mob/Demob Rate for a One Person Crew	Per Event	\$412
71	Mobile Lab Mob/Demob Rate for a Two Person Crew	Per Event	\$592
72	Mobile Lab - Mob/Demob Additional Travel Rate for a One Person Crew	Per Mile	\$2
73	Mobile Lab - Mob/Demob Additional Travel Rate for a Two Person Crew	Per Mile	\$2
74	On-Site Mobile Lab Rate for a One Person Crew (Includes Soil and GW analyses)	\$/Hour	\$183
75	On-Site Mobile Lab Rate for a Two Person Crew (Includes Soil and GW analyses)	\$/Hour	\$273
<b>LABORATORY ANALYSIS</b>			
<b>ORGANIC ANALYSIS</b>			
<b>Petroleum Hydrocarbons (HC)- SOIL</b>			
76	HC by ADHS Method 418.1 AZ (Soil Only)	\$/Sample	\$75
77	HC by ADHS Method 8015AZR1 (Soil Only)	\$/Sample	\$99
<b>HC - AIR</b>			
78	HC by ADHS Method 8015AZR1-Modified (Air Only)	\$/Sample	\$113
79	HC/BTEX by EPA Method 8015AZR1(Modified) 8021B (Air Only)	\$/Sample	\$136
<b>8021B SOIL</b>			
80	Aromatic VOCs (BTEX) by EPA Method 8021B (Soil Only)	\$/Sample	\$98
81	Halogenated VOCs (BTEX) by EPA Method 8021B Arizona Target Compounds (Soil Only)	\$/Sample	\$142
82	EPA Method 8021B; Arizona Target Compounds (Soil Only)	\$/Sample	\$168
83	Full List VOCs by EPA Method 8021B (Soil Only)	\$/Sample	\$220
<b>8021B GROUNDWATER</b>			
84	Aromatic VOCs (BTEX) by EPA Method 8021B (Groundwater Only)	\$/Sample	\$104
85	Halogenated VOCs (BTEX) by EPA Method 8021B Arizona Target Compounds (Groundwater Only)	\$/Sample	\$148
86	EPA Method 8021B; Arizona Target Compounds (Groundwater Only)	\$/Sample	\$174
87	Full List VOCs by EPA Method 8021B (Groundwater Only)	\$/Sample	\$213

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<b>8021B AIR</b>			
88	Aromatic VOCs (BTEX) by EPA Method 8021B (Air Only)	\$/Sample	\$150
89	Halogenated VOCs by EPA Method 8021B Arizona Target Compounds (Air Only)	\$/Sample	\$187
<b>8260B SOIL</b>			
90	EPA Method 8260B; Arizona Target Compounds (Soil Only)	\$/Sample	\$235
91	Full List VOCs by EPA Method 8260B (Soil Only)	\$/Sample	\$252
<b>8260B GROUNDWATER</b>			
92	EPA Method 8260B; Arizona Target Compounds (Groundwater Only)	\$/Sample	\$238
93	Full List VOCs by EPA Method 8260B (Groundwater Only)	\$/Sample	\$254
<b>POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)</b>			
94	Semi-Volatile Organics by EPA Method 8270C - base neutral (Soil Only)	\$/Sample	\$247
95	Semi-Volatile Organics by EPA Method 8270C - base neutral (Groundwater Only)	\$/Sample	\$266
96	Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8310 (Soil Only)	\$/Sample	\$186
97	Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8310 (Groundwater Only)	\$/Sample	\$184
<b>BIOFEASIBILITY / BIOTREATABILITY ANALYSIS</b>			
98	Phosphate-P by an Approved EPA/ASTM Method (Soil Only)	\$/Sample	\$41
99	Nitrate + nitrite-N by an Approved EPA/ASTM Method (Soil Only)	\$/Sample	\$45
100	Nitrogen (Soil Only)	\$/Sample	\$47
101	Alkalinity by EPA Method 310.1 (Groundwater Only)	\$/Sample	\$22
102	Total Organic Carbon by EPA Method 415.1	\$/Sample	\$53
103	Total Organic Carbon by EPA Method 9060	\$/Sample	\$67
104	Ammonia by EPA Method 350.3 or other ASTM Method (Groundwater Only)	\$/Sample	\$31
105	Sulfate by EPA Method 375.2 or other ASTM Method (Groundwater Only)	\$/Sample	\$27
106	Nitrate by EPA Method 353.2 (Groundwater Only)	\$/Sample	\$27
107	Alkalinity by EPA Method 310.1 Modified (Soil Only)	\$/Sample	\$23
108	Total Dissolved Solids by EPA Method 160.1	\$/Sample	\$20
109	Total Dissolved Solids by EPA Method 160.3	\$/Sample	\$20
110	Biochemical Oxygen Demand (BOD) by EPA Method 405.1 (Aqueous Matrices Only)	\$/Sample	\$51

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<b>WASTE CHARACTERIZATION ANALYSIS</b>			
111	HC by EPA Method 418.1 (Groundwater Only) - FOR WASTE CHARACTERIZATION AND PERMIT REQUIREMENT PURPOSES ONLY	\$/Sample	\$79
112	TCLP Extraction Lead (Pb) Analysis by EPA Method 1311 and the appropriate SW846 EPA Method	\$/Sample	\$119
113	TCLP Extraction by EPA Method 1311 - Analysis of 8 RCRA Metals by appropriate SW846 EPA Method	\$/Sample	\$265
114	Ignitability Test by EPA Method 1010 (Liquid Only)	\$/Sample	\$49
115	Ignitability Test by EPA Method 1010 Modified (Soil Only)	\$/Sample	\$50
116	Corrosivity pH by EPA Method 9045 (Soil Only)	\$/Sample	\$20
117	Corrosivity pH by EPA Method 9040 (GW Only)	\$/Sample	\$19
118	Paint Filter Free Liquids by EPA Method 9095	\$/Sample	\$22
119	PCB's by EPA Method 8082 (Soil Only]	\$/Sample	\$128
120	Lead (Pb) by an approved SW846 EPA Method (Soil Only)	\$/Sample	\$38
<b>CONTRACTOR - OTHER ACTIVITIES</b>			
<b>INVESTIGATIVE DERIVED WASTE</b>			
121	Containerized Contaminated Water Disposal	\$/Drum	\$146
122	Containerized Contaminated Soil Disposal	\$/Drum	\$336
123	Landfill Disposal of Petroleum Contaminated Soil	\$/Ton	\$42

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<p>NOTE: Additional activities (without a Cost Schedule Item Code) that are associated with a Phase can be located on the Phase Code Table.</p>			
<b>PHASE A - RELEASE CONFIRMATION</b>			
124	14-Day Release Confirmation Report	Per Report	\$581
<b>PHASE B - INITIAL SITE CHARACTERIZATION</b>			
125	Site Reconnaissance and Field Receptor Survey [1/4 Mile]	Lump Sum	\$1,700
<b>PHASE H - REMEDIAL RESPONSE</b>			
126	Pre-Built Remedial Engineering Design (Active Remedial System)	Per Design	\$6,311
<b>PHASE I - OPERATION AND MAINTENANCE</b>			
127	SVE System with Thermal Oxidizer (100 cfm)	\$/Month	\$3,401
128	SVE System with Thermal Oxidizer (250 cfm)	\$/Month	\$4,180
129	SVE System with Thermal Oxidizer (500 cfm)	\$/Month	\$4,840
130	SVE System With Thermal Oxidizer (700 cfm)	\$/Month	\$5,817
131	SVE System with Catalytic Oxidizer (100 cfm)	\$/Month	\$3,440
132	SVE System with Catalytic Oxidizer (250 cfm)	\$/Month	\$4,437
133	SVE System with Catalytic Oxidizer (500 cfm)	\$/Month	\$5,269
134	Air Sparge System (up to 100 cfm and up to 12 psi)	\$/Month	\$1,070
135	Air Sparge System (up to 100 cfm and 12 psi to 100 psi)	\$/Month	\$1,348
136	Blower, 160 CFM	\$/Month	\$1,097
137	Blower, 280 CFM	\$/Month	\$1,406
<b>PHASE K - REMEDIAL EXCAVATION</b>			
138	Remedial Excavation	Per Cubic Yard	\$12
139	Backfill and Compaction of Remedial Excavation	\$/Ton	\$22
<b>PHASE L - TANK CLOSURE</b>			
140	Tank Closure Contractor Mob/Demob	Per Event	\$759
141	Tank Closure Contractor Mob/Demob Additional Travel (additional mileage over 60 miles included in #140)	Per Mile	\$5
<b>PHASE N - REPORTING</b>			
<b>ADEQ-Approved Site Characterization Report (SCR)</b>			
142	ADEQ-Approved SCR; Up To 4 Soil Borings	\$/Report	\$4,399
143	ADEQ-Approved SCR; Up To 4 Groundwater Monitor Wells	\$/Report	\$5,466
144	ADEQ-Approved SCR; Up to 4 Soil Borings and 4 Groundwater Monitor Wells	\$/Report	\$6,341
145	Additional Cost For Each Additional Soil Boring Over 4 the for ADEQ-Approved SCR	\$/Boring	\$307
146	Additional Cost For Each Additional Groundwater Well Over 4 for the ADEQ-Approved SCR	\$/Well	\$338

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<b>ADEQ-Approved Corrective Action Plan (CAP)</b>			
147	ADEQ-Approved Corrective Action Plan (CAP)	\$/CAP	\$7,486
<b>Groundwater Monitoring Report</b>			
148	First Periodic Groundwater Monitoring Report: Up to 4 Groundwater Monitoring Wells	\$/Report	\$2,593
149	Subsequent Periodic Groundwater Monitoring Report: Up To 4 Groundwater Monitoring Wells	\$/Report	\$1,714
150	Additional Cost for Each Additional Groundwater Monitor Well Over 4 for the First Periodic Groundwater Report	Per Well	\$192
151	Additional Cost for Each Additional Groundwater Monitor Well Over 4 for the Subsequent Periodic Groundwater Report	Per Well	\$168
<b>Remedial Progress Report</b>			
152	Initial Periodic Remedial Progress Report (Soil and Groundwater)	\$/Report	\$3,002
153	Subsequent Periodic Remedial Progress Report (Soil and Groundwater)	\$/Report	\$2,136
<b>PHASE P - WORK PLAN AND SAF APPPLICATION PREPARATION</b>			
<b>WORK PLANS</b>			
155	ADEQ-Approved Site Characterization Work Plan Scenario 1: Soil Only	\$/Plan	\$4,199
156	ADEQ-Approved Site Characterization Work Plan Scenario 2: Soil and Groundwater	\$/Plan	\$5,492
157	ADEQ-Approved SAF Work Plan to Implement ADEQ-Approved CAP	\$/Plan	\$4,018
<b>SAF APPLICATION PREPARATION</b>			
158	ADEQ-Approved Preapproval Application	\$/Application	\$1,056
159	Reimbursement or Direct Payment Application [Less than or Equal to two (2) Primary Provider Invoices]	\$/Application	\$969
160	Reimbursement or Direct Payment Application [Greater than two (2) Less than or Equal to five (5) Primary Provider Invoices]	\$/Application	\$1,168
161	Reimbursement or Direct Payment Application [Six (6) or more Primary Provider Invoices]	\$/Application	\$1,422

NOTE - 1 July 1, 2007 Cost Schedule costs were adjusted by 1.5% based on the Annual 2006 Bureau of Labor of Statistics Producer Price Index for Finished Goods Less Food and Energy Not Seasonally Adjusted.